

(2) sending an access request from the node to the device, the request including a second unique value representing a second configuration of the multi[-]node system;

(3) determining whether said first and second values are identical; [and]

(4) if the first and second values are identical, then executing the access request to the peripheral device; and

repeating steps (3) and (4) each time an access request is sent from the node to the device.

--14. A computer usable medium having computer readable code embodied therein for preventing access to a shared peripheral device by a processor-based node in a multinode system, the computer usable medium comprising:

a storage module configured to store a first unique value representing a first configuration of the multinode system;

a reception module configured to receive access requests from a node to the shared peripheral device, each access request including a second unique value representing a second configuration of the multinode system;

a comparator module configured to determine, for each access request received, whether said first and second values are identical; and

an execution module for executing each access request at the peripheral device, if the first and second values are identical.

15. The computer usable medium of claim 14, wherein said storage medium

includes a submodule configured to generate said first value using information relating to a first time when the multinode system was in said first configuration, and

further comprising a module configured to generate said second value using information relating to a second time when the multinode system was in said second configuration.

16. The computer usable medium of claim 15, wherein the comparator module includes a submodule configured to determine whether said first and second times are identical.

17. A computer usable medium having computer readable code embodied therein for preventing access to a shared peripheral device by a processor-based node in a multinode system having a plurality of nodes, the shared peripheral device being coupled to the system by a resource controller, the computer usable medium comprising:

a membership monitor module configured to determine a membership list of the nodes including said shared peripheral device, on the system at predetermined times, including at least at a time when the membership of the system changes;

a resource manager module configured to determine when the shared peripheral device is in a failed state and for communicating the failure of the shared peripheral device to said membership monitor to indicate to the membership monitor to generate a new membership list;

a configuration value module configured to generate a unique value based upon said new membership list and to store said unique value locally at each node on the system; and

an access control module configured to block access requests by at least one requesting node to said shared peripheral device when the locally stored unique value at said requesting node does not equal the unique value stored at said resource controller.

18. The computer usable medium of claim 17, wherein said configuration value module is configured to execute independently of any action by said shared resource when said shared resource is in a failed state.

19. The computer usable medium of claim 17, wherein said membership monitor module is configured to execute independently of any action by said shared resource when said shared resource is in a failed state.

20. The computer usable medium of claim 17, wherein said resource manager module is configured to execute independently of any action by said shared resource when said shared resource is in a failed state.

21. The computer usable medium of claim 17, wherein said configuration module is configured to execute independently of any action by said shared resource when said shared resource is in a failed state.

LAW OFFICES

WNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N.W.
WASHINGTON, DC 20005
202-408-4000

22. The computer usable medium of claim 17, wherein said access control module is configured to execute independently of any action by said shared resource when said shared resource is in a filed state.

23. The computer usable medium of claim 17, wherein said configuration value module includes a submodule configured to generate the unique value based at least in part upon a time stamp indicating the time at which the corresponding membership list was generated.

24. A computer data signal embodied in a carrier wave and representing sequences of instructions which, when executed by a remote computer, causes the remote computer to perform the steps of:

storing at a peripheral device a first unique value representing a first configuration of a multinode system;

sending an access request from a node to the shared peripheral device, the request including a second unique value representing a second configuration of the multinode system;

determining whether said first and second values are identical;

executing the access request at the peripheral device if the first and second values are identical;

repeating the determining step and the executing step each time an access request is sent from the node to the device.